

Manitoba
Agriculture



1991
Field Crop Variety
Recommendations
for Manitoba



**CERTIFIED
SEED**



USE IT FOR ALL ITS WORTH™



1991
VARIETY RECOMMENDATIONS
FOR MANITOBA

**FIELD CROP VARIETY RECOMMENDATIONS
FOR MANITOBA**

**Prepared by
Manitoba Agriculture in cooperation
with Agricultural Research Personnel in Industry,
University of Manitoba and Agriculture Canada.**

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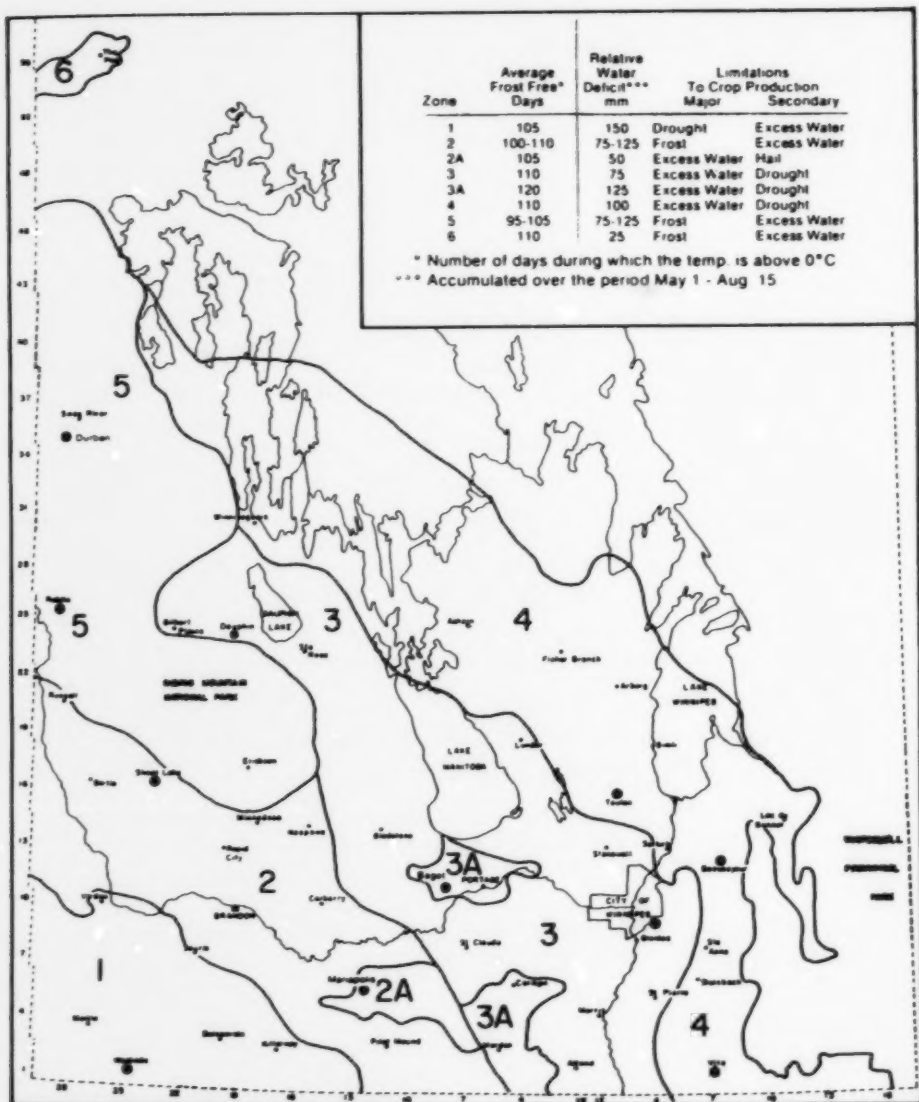
CROP INSURANCE

Except for grain corn, safflower, spring rye and forage crops, all varieties recommended in this publication are insurable under the Canada-Manitoba Crop Insurance Program. For information on the insurability of varieties not recommended in this publication, please contact your nearest Crop Insurance office.

USE OF GOOD SEED

Always use good, preferably pedigreed, seed of a recommended variety. Pedigreed seed is produced under the rules and regulations of the Canadian Seed Growers' Association. It has varietal purity, and must meet the high level of quality and cleanliness required in pedigreed seed grades. In field trials, Certified seed has consistently outyielded seed derived from non-pedigreed sources.

CROP VARIETY ZONE MAP FOR MANITOBA



● CROP VARIETY ADAPTATION TRIALS

CEREAL CROPS

BARLEY

Recommended Varieties

For Malting or Feed

Argyle — all zones — 6-row
Bonanza — all zones — 6-row
Conquest — all zones — 6-row
Ellice — all zones — 2-row

For Feed Only

Bedford — all zones — 6-row	
Brier — all zones — 6-row	See Comments
CDC Buck — all zones — 6-row hulless	See Comments
Deuce — all zones — 2-row	
Duke — all zones — 6-row semi-dwarf	See Comments
Heartland — all zones — 6-row	
Leduc — all zones — 6-row	See Comments
Tupper — all zones — 6-row hulless	See Comments
Virden — all zones — 6-row	

Comments

CDC Buck (BT 492): A new six row hulless feed variety with higher yield potential than Tupper and stem rust resistance. Commercial seed not available in 1991.

Brier: Not recommended for areas where lodging is a serious problem.

Duke: May not be recommended in 1992.

Leduc: Not recommended for areas where lodging is a serious problem.

Tupper: May not be recommended in 1992.

Stem Rust: A new race of stem rust virulent on all recommended barley varieties became prevalent in 1990. It is not presently known whether it will recur. Early seeding will reduce the likelihood of severe infection.

N.B. Harrington is susceptible to both the old and newly-prevalent stem rust races. Therefore, it is NOT recommended for production in Manitoba.

Barley Variety Descriptions

Variety	Yield as % of Argyle*	Years Tested	Days to Maturity	Height		Test Weight		Resistance to:					
				cm	(in.)	kg/m ³	(lb/bu)	Lodging	Stem Rust	Loose Smut	Surface Borne Smut	Root Rot	Net Blotch
Argyle	100	5	88	100	(40)	563	(43.7)	Fair	Good	Poor	Poor	Good	Fair
Bonanza	100	5	85	95	(38)	590	(45.8)	Fair	Good	Poor	Poor	Good	Fair
Conquest	96	5	84	102	(41)	587	(45.6)	Fair	Good	Poor	Fair	Fair	Fair
Ellice	94	5	87	86	(35)	617	(47.9)	Fair	Good	Poor	Poor	Fair	Fair
Bedford	109	5	89	84	(34)	640	(49.7)	Good	Good	Poor	Fair	Good	Fair
Brier	114	3	88	85	(34)	629	(48.9)	Fair	Good	Poor	Good	Poor	Good
CDC Buck	93	3	90	107	(43)	683	(53.1)	Good	Good	Poor	Poor	Poor	Fair
Deuce	97	5	88	83	(33)	661	(51.3)	Good	Good	Poor	Good	Good	Poor
Duke	100	4	90	79	(31)	577	(44.8)	Excel	Good	Poor	Fair	Good	Fair
Heartland	107	5	88	81	(32)	588	(45.7)	Good	Good	Poor	Fair	Good	Good
Leduc	109	5	86	86	(35)	580	(45.1)	Poor	Good	Fair	Good	Fair	Fair
Tupper	83	5	86	87	(35)	599	(46.5)	Fair	Fair	Fair	Poor	Good	Poor
Viriden	114	5	90	89	(36)	595	(46.2)	Excel	Good	Poor	Fair	Good	Fair

*Average yield of Argyle: 5 yr. = 3864 kg/ha (78.8 bu/ac; assuming a 43.7 lb bushel).

Yields by Crop Variety Zone (per cent of Argyle)

Variety	Years Tested	Zone					
		1	2	3	4	5	6
Argyle	5	100	100	100	100	100	100
Bonanza	5	100	100	102	96	100	107
Conquest	5	93	95	97	95	96	106
Ellice	5	101	91	92	88	88	120
Bedford	5	117	106	109	111	100	116
Brier	3	126	120	108	110	104	128
CDC Buck	3	83	87	95	93	93	112
Deuce	5	103	94	97	94	91	107
Duke	4	91	100	103	100	100	111
Heartland	5	117	108	103	103	102	122
Leduc	5	120	107	108	102	101	133
Tupper	5	78	86	82	84	82	91
Viriden	5	119	114	111	113	109	126

Yield of Argyle	kg/ha	3390	4172	4020	3511	4378	3133
	bu/ac*	69.2	85.1	82.0	71.6	89.3	63.9

*Assuming a 43.7 lb bushel.

OATS

Recommended Varieties

For Milling or Feed

Dumont — all zones

Fidler — all zones

Riel — all zones

Robert — all zones

Comments

Although all oat varieties recommended for Manitoba are acceptable as milling oats, the high protein varieties, Riel and Robert, are preferred. In general, the protein contents of Dumont and Fidler are approximately 12%, Robert is 13% and Riel is 14% (basis whole oat, 10% moisture). The race horse industry prefers the oat varieties Dumont and Fidler because of their white hull.

The oat variety Derby, developed by the Crop Development Center in Saskatoon, is NOT recommended for Manitoba because of its stem rust, leaf rust and smut susceptibility.

The oat variety Fidler may be removed from the recommended list in 1992.

Oat Variety Descriptions

Variety	Yield as % of Dumont	Years Tested	Days to Maturity	Height		Hull Colour	Test Weight	Resistance to				
				cm	(in.)		kg/m ³ (lb/bu)	Lodging	Stem Rust	Leaf Rust**	Smut	BYDV*
Dumont	100***	5	96	94	(37)	23.8	white 481 (38.6)	Fair	Good	Good	Good	Poor
Fidler	97	5	95	95	(38)	25.1	white 468 (37.5)	Good	Good	Good	Good	Poor
Riel	101	5	96	99	(39)	21.2	L. tan 490 (39.3)	Good	Good	Good	Good	Poor
Robert	106	5	95	91	(36)	22.4	tan 470 (37.7)	Good	Good	Good	Good	Fair

*BYDV = Barley Yellow Dwarf Virus - a viral disease carried and spread by aphids.

** Leaf rust races capable of attacking all resistant oat varieties have become prevalent in the last two years.

***Average yield: 3915 kg/ha (103 bu/ac) in Manitoba trials (1986-90).

Yields by Crop Variety Zone (per cent of Dumont)

Variety	Years Tested	Zone					
		1	2	3	4	5	6*
Dumont	5	100	100	100	100	100	100
Fidler	5	99	95	95	100	99	97
Riel	5	100	96	100	109	100	99
Robert	5	109	101	107	111	101	106

Yield of Dumont (kg/ha)

(bu/ac)

2937

77

4320

113

3846

101

3833

101

4622

121

3669

96

*No data available for 1987 for this zone.

RYE

Recommended Varieties

Fall Rye

Musketeer — all zones

Prima — all zones

Spring Rye

Gazelle — all zones

Rye Variety Descriptions

Variety	Yield as % of Musketeer*	Years Tested	Order of Maturity	Winter Survival	Resistance to:		
					Lodging	Shattering	Ergot
Fall							
Musketeer	100	5	1	Very good	Good	Good	Poor
Prima	107	5	2	Very good	Fair	Good	Poor
Spring							
Gazelle	**	5	—	—	Fair	Good	Poor

*Average yield of Musketeer 3997 kg/ha (64 bu/ac) in 14 Manitoba trials (1986-1990).

**On average spring rye yields are 70% of fall rye yields.

TRITICALE

Recommended Varieties

Carman — all zones

Frank — all zones

Wapiti — all zones

Triticale is used in Canada both as a food and livestock feed. Seed yield is generally higher than Glenlea wheat but protein content is slightly lower. Wapiti also shows potential for silage production.

Triticale Variety Descriptions

Variety	Yield as % of Carman*	Years Tested	Days to Maturity**	Height		Resistance to:			
				cm	(in.)	Stem Lodging	Leaf Rust	Rust	Bunt
Carman	100	4	100	104	(41)	Good	Good	Good	Good
Frank	112	3	100	95	(38)	Good	Good	Good	Good
Wapiti	110	4	98	99	(39)	Good	Good	Good	Good

*Average yield of Carman 3358 kg/ha (57 bu/ac) in 12 Manitoba trials (1987-1990).

**Days to maturity and height are based on Zone 3 and 3A data only.

DURUM WHEAT

Recommended varieties

Arcola — all zones
 Kyle — zone 1 only
 Medora — all zones
 Plenty — all zones
 Sceptre — all zones

See Comments

See Comments

See Comments

Comments

Arcola: May be removed from the recommended list in 1992.

Kyle: Developed at Agriculture Canada Research Station, Swift Current. It has shown a yield advantage in the drier zones of Manitoba, and has resistance to the rusts and bunt. However, it is later maturing, taller, and more susceptible to lodging and therefore not recommended for higher moisture areas.

Plenty (DT606): Developed at University of Saskatchewan, Saskatoon. It has shown a yield advantage over other varieties across Manitoba. It is later maturing and taller, similar to Kyle, but has lodging resistance comparable to Medora. Distribution of seed will be handled by SeCan. Certified seed will not be available in 1991.

Durum Wheat Variety Descriptions

Variety	Yield as % of Medora*	Years Tested	Days to Maturity	Seed Size	Height	Resistance to:				
						Lodging	Stem Rust	Leaf Rust	Loose Smut	Bunt
Arcola	96	5	100	Large+	Medium	Fair	Good	Good	Fair	Good
Kyle	105**	3	103	Large	Medium+	Fair	Good	Good	Fair	Good
Medora	100*	5	101	Large	Medium	Good	Good	Good	Fair	Good
Plenty	103	2	103	Large	Medium+	Good	Good	Good	Fair	Good
Sceptre	101	5	101	Large	Medium-	Good	Good	Good	Fair	Good

*Average Medora yield 3426 kg/ha (51 bu/ac) in Manitoba trials (1986-90).

**Relative yield of Kyle for Zone 1 only.

Yields by Crop Variety Zone (per cent of Medora)

Variety	Years Tested	Zone			
		1	2	3	4
Arcola	5	102	96	94	94
Kyle	3	105	—	—	—
Medora	5	100	100	100	100
Plenty	2	105	106	102	101
Sceptre	5	100	106	102	92

Yield of Medora (kg/ha)
 (bu/ac)

2885

3511

3555

3362

43

52

53

50

WHEAT

Recommended Varieties

Eligible for Canada Western Red Spring grades

Columbus — all zones	
Katepwa — all zones	See Comments
Kenyon — all zones	
Neepawa — all zones	See Comments
Pasqua — all zones	See Comments
Roblin — all zones	See Comments

Eligible for Canada Prairie Spring (Red) grades

Biggar (semi-dwarf) — all zones	See Comments
Oslo (semi-dwarf) — all zones	

Eligible for Canada Prairie Spring (White) grades

Genesis (HY 355) — zone 1 only	See Comments
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Eligible for Canada Utility grades

Glenlea — all zones	See Comments
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Comments

Neepawa: Is fairly susceptible to leaf rust and will suffer some yield loss in a year when leaf rust attacks early and severely. It may be removed from the recommended list in 1992.

Katepwa: Has slightly more leaf rust resistance than Neepawa, but will also suffer yield losses in a leaf rust epidemic year.

Pasqua (BW 114): A new bread wheat variety developed at Agriculture Canada Research Station Winnipeg that is similar to Katepwa in most respects but has excellent leaf and stem rust resistance and is intermediate to Katepwa and Columbus in preharvest sprouting resistance. Certified seed will not be available in 1991. Seed distribution is through SeCan.

Roblin: Is shorter-strawed, earlier maturing, and higher in grain protein content than other recommended wheat varieties in its class.

Biggar: A red Canadian Prairie Spring wheat which has harder kernels but is otherwise similar to HY 320. If sown in late May or June maturity may be greatly delayed and yields reduced relative to CWRS wheat.

Genesis (HY 355): A white Canadian Prairie Spring wheat variety developed at Agriculture Canada Research Station Swift Current and available from SeCan members. It may lodge severely and is very susceptible to sprouting in the swath (straight combining recommended). If sown in late May or in June its maturity may be greatly delayed and yield much reduced relative to CWRS wheats.

Note:

CDC Makwa (BW 606) is a new bread wheat variety developed at the University of Saskatchewan, distributed by SeCan, that is similar in most respects to Katepwa. It is fairly susceptible to leaf rust and is NOT recommended for Manitoba.

Laura is a bread wheat variety that has weaker straw and later maturity than Katepwa. It is susceptible to bunt and does not have sufficient resistance to leaf rust for Manitoba, including western Manitoba. Therefore, it is NOT recommended in Manitoba.

Fielder is a soft white spring wheat usually grown under irrigation. It is NOT recommended in Manitoba. It is susceptible to stem rust and the smuts.

Bluesky and Wildcat are Utility wheat varieties which yield less in Manitoba and have poorer leaf rust and bunt resistance than Glenlea. They are NOT recommended for Manitoba.

Wheat Variety Descriptions

Variety	Yield as % of Katepwa*	Years Tested	Days to Maturity	Seed Size	Height	Resistance to:				
						Lodging	Stem Rust	Leaf Rust	Loose Smut	Bunt
Columbus	97	5	100	Medium	Medium+	Good	Good	Good	Fair	Good
Katepwa	100	5	97	Medium	Medium	Good	Good	Fair	Good	Good
Kenyon	96	4	97	Medium	Medium	Good	Good	Good	Good	Fair
Neepawa	98	5	97	Medium	Medium	Good	Good	Poor	Good	Fair
Pasqua	96	2	97	Medium	Medium	Good	Good	Good	Good	Fair
Roblin	96	5	95	Medium+	Medium-	Excellent	Good	Good	Good	Fair
Biggar	110	2	103	Medium+	Semidw	Excellent	Good	Good	Poor	Poor
Genesis	117**	2	101	Medium+	Medium	Fair	Good	Fair	Fair	Poor
Oslo	109	5	98	Medium+	Semidw	Excellent	Good	Good	Poor	Fair
Glenlea	110	5	99	Large	Medium+	Good	Good	Fair	Good	Fair

*Average Katepwa yield is 3080 kg/ha (45.7 bu/ac) in Manitoba trials (1985-1990).

**Relative yield of Genesis for zone 1 only.

Yields by Crop Variety Zone (per cent of Katepwa)

Variety	Years Tested	Zone					
		1	2	3	4	5	6*
Columbus	5	98	102	97	95	95	101
Katepwa	5	100	100	100	100	100	100
Kenyon	4	90	95	94	102	98	110
Neepawa	5	98	102	98	96	98	105
Pasqua	2	94	100	94	92	102	107
Roblin	5	93	96	93	100	100	114
Biggar	2	116	107	109	101	121	124
Genesis	3	117	—	—	—	—	—
Oslo	5	109	106	106	110	117	118
Glenlea	5	97	105	108	116	115	120

Yield of Katepwa

kg/ha

2780

3280

3280

2670

2950

2570

bu/ac

41

49

49

40

44

38

*No data available for 1987 for this zone.

WINTER WHEAT

All registered varieties lack sufficient winter hardiness for conventional production in Manitoba. Seeding into standing stubble provides a snow trap that improves winter survival. Currently registered varieties are very susceptible to stem and leaf rust. Norstar is the hardiest variety available and, on average, yields 125% of the spring wheat variety, Katepwa, in Manitoba.

Norwin, a semi-dwarf variety, is inferior to Norstar in winter survival and yield and should NOT be grown in Manitoba.

OILSEEDS AND SPECIAL CROPS

BUCKWHEAT

Recommended Varieties

Large Seeded

Mancan – zones 1-5

Manor – zones 1-5

Buckwheat Variety Descriptions

Variety	Yield as % of Mancan	Years Tested	Days to 100% Bloom	Height		Seed Wt g/1000
				cm	(in.)	
Mancan	100*	4	46	130	(51)	30.3
Manor	103	4	44	125	(49)	30.0

*Average yield, 2285 kg/ha (2040 lb/ac) in Manitoba trials (1987-90).

CANARYSEED

Recommended Varieties

Elias – zones 1-5

Keet – zones 1-5

Canaryseed Variety Descriptions

Variety	Yield as % of Keet	Years Tested	Days to Maturity	Height		Seed Wt g/1000
				cm	(in.)	
Elias	106	5	103	78	(31)	7.4
Keet	100*	5	102	78	(31)	6.7

*Average yield 1746 kg/ha (1559 lb/ac) in Manitoba trials (1986-90).

CANOLA-RAPESEED

Recommended Varieties

Argentine type (*Brassica napus*)

Alto – zones 1-6

Celebra – zones 1-6

Delta – zones 1-6

Global – recommended for zones 1, 2, 2A, 3 & 3A

Hyola 40 – zones 1-6

Legend – zones 1-6

Profit – zones 1-6

Regent – zones 1-6

Vanguard – zones 1-6

Westar – zones 1-6

High erucic varieties

Hero – zones 1-6

Low linolenic varieties

Stellar – zones 1-6

Triazine tolerant varieties

AC Tristar – zones 1-6

OAC Triton – zones 1-6

OAC Triumph – zones 1-6

Stallion – zones 1-6

Tribute – zones 1-6

Polish type (*Brassica rapa*)

AC Parkland – zones 1-6

Colt – zones 1-6

Horizon – zones 1-6

Tobin – zones 1-6

Comments

It is recommended that producers use only Certified seed of the recommended varieties to assure acceptability of their product.

Celebra (SV02403) and **Vanguard** (SV02404): Developed by Svalof AB, Svalov, Sweden. Seed is distributed by Bonis & Company Ltd., Ont. and is available through Wheat City Seeds Ltd., Brandon and S.S. Johnson Seeds Ltd., Arborg.

Delta (WW1449): Developed at the Weibullsholm Plant Breeding Institute, Landskrona, Sweden. Seed is distributed by United Grain Growers, Winnipeg/Allelix Crop Technologies, Mississauga.

Hyola 40 (CS002): A hybrid canola developed and distributed by Garst Seed Company (Canada), Winnipeg.

Profit (DN-188): Developed at the Agriculture Canada Research Station, Saskatoon. Seed is available through SeCan members.

Hero (S82-4362): A rapeseed variety which produces a special quality oil high in erucic acid. Hero was developed at the University of Manitoba and is grown on a contract basis only though CSP Foods.

AC Tristar (ACS-N4): A new triazine tolerant variety developed by Agriculture Canada, Saskatoon, and is available through SeCan members.

Stallion (SV8525953): A new triazine tolerant variety developed by Svalof AB, Svalov, Sweden. Seed is distributed by Bonis & Company Ltd., Ont., and is available from S.S. Johnson Seeds Ltd., Arborg and Wheat City Seeds Ltd., Brandon.

AC Parkland (ACS-C1): A new Polish variety developed at the Agriculture Canada Research Station, Saskatoon. Seed is being distributed through SeCan members.

Topas has been de-registered and is therefore not recommended.

Regent may be removed from the recommended list in 1992 due to inadequate performance.

Variety Descriptions

Species and Variety	Yield as % of Check	Years Tested	Days to Maturity	Height		Seed oil (%)	Meal Protein (%)	Resistance to	
				cm	(in.)			White Rust/ Staghead	Blackleg**
Argentine, (<i>B. napus</i>)¹									
Alto	102	3	95	106	(42)	44.3	47.7	R	HS
Celebra	107	2	93	119	(47)	42.0	46.0	R	MS
Delta	104	3	91	106	(42)	39.8	45.6	R	S
Global	100	4	97	133	(52)	40.6	45.2	R	MR
Hyola 40	113	2	91	107	(42)	41.0	42.9	R	MS
Legend	96	3	91	108	(43)	42.3	48.1	R	MS
Profit	104	2	89	110	(43)	43.5	47.4	R	MS
Regent	88	5	92	110	(43)	42.5	47.7	R	S
Vanguard	106	2	91	107	(42)	42.8	47.7	R	MS
Westar	100*	5	90	107	(42)	42.8	46.4	R	HS
High erucic varieties¹									
Hero	82	2	90	96	(38)	42.9	48.9	R	MS
Low linolenic varieties¹									
Stellar	76	4	93	115	(45)	41.5	47.4	R	MR
Triazine tolerant varieties²									
AC Tristar	138	2	90	104	(41)	40.2	48.0	R	S
OAC Triton	100*	5	93	117	(46)	41.5	46.7	R	S
OAC Triumph	111	3	96	129	(51)	41.7	—	R	—
Stallion	126	2	87	111	(44)	38.2	48.4	R	MS
Tribute	94	5	89	96	(38)	39.6	48.1	R	S
Polish (<i>B. rapa</i>)³									
AC Parkland	96	2	82	103	(41)	42.0	42.2	MR	S
Colt	106	3	80	107	(42)	41.7	43.2	HS	S
Horizon	104	3	81	105	(41)	42.0	42.6	HS	S
Tobin	100*	5	81	98	(39)	41.7	42.7	MR	S

¹ Yield as % of Westar ² Yield as % of OAC Triton ³ Yield as % of Tobin

* Within class check yields in Manitoba Trials (1986-1990) Westar: 2395 kg/ha (42.8 bu/ac)

OAC Triton: 1688 kg/ha (30.1 bu/ac) Tobin: 1726 kg/ha (30.8 bu/ac)

**HS = Highly susceptible S = Susceptible MS = Moderately susceptible

MR = Moderately resistant R = Resistant

FABABEANS

Recommended Varieties

Aladin – zones 2, 3, 4 & 5

Herz Freya – zones 2, 3, 4 & 5

Outlook – zones 2, 3, 4 & 5

Pegasus – zones 2, 3, 4 & 5

Fababeans Variety Descriptions

Variety	Yield as % of Pegasus	Years Tested	Seed Wt. g/1000	Days to Maturity	Protein Content %
Aladin	92	4	406	106	29.8
Herz Freya	97	5	381	102	28.6
Outlook	99	4	328	105	29.6
Pegasus	100*	5	355	105	29.7

*Average yield 4633 kg/ha (4133 lb/ac) in Manitoba trials (1986–90).

FIELD BEANS

Recommended Varieties

Variety	Type	
OAC Seaforth	Navy	South of Township 14, Zones 1, 2, 2A, 3 & 3A and that portion of Zone 4 with a minimum corn heat unit accumulation of approximately 2400.
Seafarer	Navy	
Fiesta	Pinto	See comments.
Topaz	Pinto	See comments.

Comments

Fiesta is sponsored by R. T. Stow Ltd., Carman.

Topaz is sponsored by Northrup King.

Field Beans Variety Descriptions

Type	Variety	Yield as % of Seafarer	Years Tested	Seed Wt. g/1000	Days to Maturity	Height	
						cm	(in.)
Navy	OAC Seaforth	100	3	156	94	42	(17)
Navy	Seafarer	100*	3	157	92	45	(18)
Pinto	Fiesta Pinto	111	3	319	90	53	(21)
Pinto	Topaz	122	3	301	88	60	(24)

*Average yield 2473 kg/ha (2208 lb/ac) in Manitoba trials (1988–90).

FIELD PEAS

Recommended Varieties

FOOD

Yellow Peas

Century – zones 1-5 medium-seeded

Express – zones 1-5 medium-seeded

Tipu – zones 1-5 medium-seeded, semi-leafless

Titan – zones 1-5 large-seeded

Trapper – zones 1-5 small-seeded

Victoria – zones 1-5 medium-seeded

Green Peas

Princess – zones 1-5 medium-seeded

Radley – zones 1-5 medium-seeded, semi-leafless

FEED

Tara – zones 1-5 medium-seeded

FIBER

Yellowhead – zones 1-5 medium-seeded

Comments

Fortune: Removed from the recommended list due to poor yield.

Triumph: Will be de-registered in 1990.

Radley: Fully registered in 1990, was developed by Booker Seeds Ltd., U.K. Radley is semi-leafless but is highly susceptible to powdery mildew. Seed is distributed by Columbia Seed Co., Vauxhall, AB.

Yellowhead: Registered in 1989, was developed by Agriculture Canada, Morden. Yellowhead is a high yielding, yellow-seeded cultivar with high edible fiber content. Seed distribution rights have been granted to Woodstone Foods Lt., Portage la Prairie, MB.

Express and Victoria seed: Distributed by S.S. Johnson Seeds Ltd., Arborg through Bonis & Co. Ltd., Lindsay, ON.

Field Pea Variety Descriptions

Variety	Yield as % of Century	Years Tested	Days to Maturity	Length of Vine		Seed Weight g/1000	Protein %
				cm	(in.)		
FOOD							
Yellow Peas							
Century	100*	3	93	123	(48)	217	25.2
Express	111	3	87	65	(26)	206	25.3
Tipu	95	3	90	114	(45)	207	24.2
Titan	109	3	93	116	(46)	233	24.1
Trapper	104	3	91	103	(41)	134	25.8
Victoria	108	3	87	96	(38)	169	24.7
Green Peas							
Princess	91	3	84	63	(25)	172	23.6
Radley	96	2	87	62	(25)	170	25.3
FEED							
Tara	120	3	94	115	(45)	206	24.4
FIBER							
Yellowhead	116	2	91	100	(39)	236	23.5

*Average yield 2144 kg/ha (31.9 bu/ac) in Manitoba Trials (1988-90).

Yields by Crop Variety Zone (per cent of Century)

Variety	Years Tested	Zone				
		1	2	3	4	5
FOOD						
Yellow Peas						
Century	3	100	100	100	100	100
Express	3	120	119	104	107	116
Tipu	3	94	97	93	97	97
Titan	3	108	107	103	124	106
Trapper	3	104	107	98	110	107
Victoria	3	103	110	105	114	110
Green Peas						
Princess	3	90	97	88	93	93
Radley	2	86	102	97	96	106
FEED						
Tara	3	116	121	117	129	123
FIBER						
Yellowhead	2	102	122	114	129	121
Century						
kg/ha		2067	1975	2256	2231	2031
bu/ac		30.7	29.4	33.5	33.2	30.2

FLAX

Recommended Varieties

Andro – zones 1-5

Dufferin – zones 1-5

Flanders – zones 1-5

Linott – zones 1-5

See Comments

McGregor – zones 1-5

NorLin – zones 1-5

NorMan – zones 1-5

Somme – zones 1-5

Vimy – zone 1 only

See Comments

Comments

Plant all varieties early for maximum yield, particularly Dufferin, Flanders and McGregor. In northern areas use the earlier Andro, Linott, NorLin, NorMan or Somme. When seeding is delayed Andro, Linott, NorLin, Somme and Vimy will give the best results.

Linott: Early maturing and is recommended only for northern areas or when seeding is delayed. It is relatively low yielding when seeded early.

Andro: Developed by the Crop Development Center of the University of Saskatchewan and was registered in 1988. Andro is a selection from McGregor. In comparison to McGregor, Andro is earlier maturing and has shorter straw, larger seed size and is lower yielding in early seeding. Seed is available from SeCan members.

Flanders: Developed by the Crop Development Center of the University of Saskatchewan and was registered in 1989. In comparison to McGregor, Flanders is earlier maturing by 2 days, higher yielding and has a higher oil content. Seed is available from SeCan members.

Somme: Developed by the Crop Development Center of the University of Saskatchewan and was registered in 1989. Somme is medium-early maturing and produces high yields in both early and late seeding. Seed is available from SeCan members.

Vimy: Developed by the Crop Development Center of the University of Saskatchewan and was registered in 1986. Vimy is large-seeded, medium-early maturing, and is high yielding in both early and late seeding. It has low resistance to lodging and, therefore, recommended only for the drier zone 1.

Flax Variety Descriptions

Variety	Yield as % of NorLin	Years Tested	Days to Maturity	Height		Resistance to Lodging	Seed Weight g/1000	% Oil Content	Oil** Quality	Resistance to:	
				cm	(in.)					Rust	Wilt
Andro	92	3	94	57	(22)	Fair	5.2	43.3	182	Good	Fair
Dufferin	99	5	103	63	(25)	Fair	5.2	44.4	177	Good	Fair
Flanders	102	2	99	59	(23)	Good	4.9	44.5	179	Good	Fair
Linott****	88	5	89	57	(22)	Fair	5.2	43.8	177	Good	Fair
McGregor	100	5	101	62	(24)	Good	4.8	43.2	180	Good	Fair
NorLin	100*	5	92	59	(23)	Fair	5.4	42.8	178	Good	Fair
NorMan	99	5	97	59	(23)	Fair	5.3	44.2	172	Good	Fair
Somme	100	2	93	60	(24)	Fair	5.4	43.4	183	Good	Fair
Vimy****	—	—	—	—	—	Poor	—	—	—	Good	Fair

* Average yield 1819 kg/ha (29.0 bu/ac) in Manitoba trials (1986-90).

** Drying property measured in iodine units.

*** Linott yielded at least 10% higher than all varieties in Cooperative Tests seeded after June 1 at Morden and Portage la Prairie, 1986-1990.

**** Comparable data are not available. Vimy yielded 96% of NorLin in zone 1 in 3 years of test (1985, 1986 and 1990). It is of similar maturity and height as NorLin and has similar oil content and oil quality as Flanders. Vimy has a larger seed size than all other varieties.

Yields by Crop Variety Zone (per cent of NorLin)

Variety	Years Tested	Zone**				
		1	2	3	4	5
Andro	3	95	99	93	84	98
Dufferin	5	99	101	97	97	103
Flanders	2	104	103	104	99	101
Linott	5	88	87	87	89	92
McGregor	5	99	102	102	96	102
NorLin	5	100	100	100	100	100
NorMan	5	99	99	99	95	105
Somme	2	99	102	102	98	97
Vimy	3	96	—	—	—	—
NorLin						
kg/ha		1691	1658	1842	2039	1786
bu/ac		26.9	26.4	29.3	32.5	28.5

**Zone 6 is not included due to lack of data.

LENTILS

Recommended Varieties

Eston – zones 1-5

Laird – zones 1, 2, 2A

Comments

Laird is NOT recommended in zone 3 and 3A due to indeterminate growth under high moisture conditions.

Lentil Variety Descriptions

Type	Variety	Years Tested	Yield as % of Laird	Days to Maturity	Seed Weight g/1000	Height	
						cm	(in.)
Persian	Eston	5	146	91	36	36	(14)
Chilean	Laird	5	100*	100	61	48	(19)

*Average yield 1216 kg/ha (1085 lb/acre) in Manitoba trials (1986-90).

MUSTARD

Recommended Varieties

Yellow type (*Sinapis alba*)

Gisilba – zones 1-5

Ochre – zones 1-5

Tilney – zones 1-5

Oriental type (*Brassica juncea*)

Cutlass – zones 1-5

Forge – zones 1-5

Lethbridge 22A – zones 1-5

Comments

The brown mustard variety **Scimitar** has a green seed problem which makes it unacceptable to the Mustard Association. It is therefore NOT recommended.

Brown mustards: Have not been included because there are no recommended registered varieties. Common brown mustard yielded 110% of Gisilba in Manitoba Trials (1986-90).

Forge: A new oriental mustard variety developed by Reckitt & Colman Products, Ltd., Norwich, England. It has a high yield of large seed with good color, low fixed oil content and a high volatile oil content. This variety is highly susceptible to white rust. Seed is distributed by Garst Seed Company (Canada), Winnipeg.

Domo mustard: Has not been included due to lack of data.

Kirby mustard: Has been de-registered and is therefore not recommended.

Mustard Variety Descriptions

Type	Variety	Years Tested	Yield as % of Gisilba	Days to Maturity	Height		Oil %
					cm	(in.)	
Yellow	Gisilba	5	100*	87	109	(43)	26.4
Yellow	Ochre	2	104	88	108	(43)	26.6
Yellow	Tilney	5	103	88	115	(45)	26.5
Oriental	Cutlass	5	133	85	117	(46)	36.5
Oriental	Forge	2	136	85	126	(50)	33.7
Oriental	Leth 22A	5	109	86	118	(46)	36.5

*Average yield 1923 kg/ha (1717 lb/ac) in Manitoba trials (1986-1990).

Yields by Crop Variety Zone (per cent of Gisilba)

Variety	Years Tested	Zone**				
		1	2	3	4	5
Gisilba	5	100	100	100	100	100
Ochre	2	110	113	103	101	98
Tilney	5	103	113	101	107	97
Cutlass	5	131	147	128	142	127
Forge	2	102	141	126	184	138
Leth 22A	5	106	126	106	110	107
Gisilba check						
kg/ha		1698	1781	1953	1945	2103
lb/ac		1516	1590	1744	1737	1878

**Zone 6 is not included due to lack of test sites

POTATOES

Recommended Varieties

Early crop

Red: Norland

White: Carlton

Conestoga

Storage

Red: Norland, Red Pontiac

White: Norchip, Monona, Kennebec, Shepody

Russet: Russet Burbank, Norgold Russet

Yellow Flesh: Yukon Gold

Potato Variety Descriptions

Carlton: An early maturing variety with white-skinned, oval, shallow-eyed tubers that size early.

Conestoga: A good yielding, early maturing variety with white-skinned, round, shallow-eyed and high specific gravity tubers. It is suitable for early chipping and early table stock sales but is somewhat susceptible to hollow heart.

Norland: A good yielding, early maturing variety with red-skinned, shallow-eyed tubers suited for early harvest and storage until mid-winter.

Kennebec: A very late maturing, high yielding variety with white-skinned, shallow-eyed tubers suitable for chipping. It is susceptible to greening.

Monona: A medium to high yielding variety of mid-season maturity with white-skinned, oblong, shallow-eyed tubers of medium to low specific gravity that

are suitable for chipping. Chips of acceptable quality can be produced after long-term storage.

Norchip: A good yielding, medium maturing variety with white-skinned, high-specific-gravity tubers. It has acceptable chipping characteristics and a short dormancy period.

Norgold Russet: A good yielding variety of medium maturity with oblong to long uniform tubers with short dormancy period. Cooking quality is suited to baking and table stock sales but the percentage of grade-out resulting from hollow heart can be very high making the potatoes unsaleable without the aid of mechanical hollow heart sorting equipment.

Red Pontiac: A high yielding, drought tolerant variety with red-skinned, medium deep-eyed tubers of low dry matter content. Suitable for table stock use.

Russet Burbank: A high quality, late maturing variety with russet-skinned, long, shallow-eyed tubers suitable for processing (other than chips), baking and table stock use. Its tuber shape can be extremely variable if plants are subject to stress during the tuber enlargement period of growth.

Shepody: A high quality, late mid-season maturing variety with large, white-skinned, oblong-to-elliptical tubers. Yield, specific gravity and french fry color are similar to Russet Burbank. First harvest for processing is expected to be acceptable at a minimum of 5 to 7 days earlier than Russet Burbank.

Yukon Gold: a medium yielding, medium maturing, yellow-fleshed variety with high specific gravity and shallow-eyed tubers with acceptable table stock cooking quality. The percentage of hollow heart can frequently exceed the Canada grade tolerance levels.

SAFFLOWER

Recommended Variety

Saffire

Variety Description

Variety	Yield*		Years Tested	Days to Maturity	Height		Seed Wt. g/1000	Resistance to:	
	kg/ha	(lb/ac)			cm	(in.)		Sclerotinia Head Rot	Alternaria Leaf Spot
Saffire	1657	(1478)	5	111	51	(20)	36.6	Fair	Fair

*Average yield in Manitoba trials (1986-90).

SOYBEANS

Recommended Varieties

	Maturity Group	Minimum Corn Heat Unit Requirement
Baron	000	2450
KG 20	00	2400
Maple Amber	000	2300
Maple Ridge	000	2300
McCall	00	2500

Soybeans are placed into maturity groups based on their photoperiod sensitivity. The 00 maturity group soybeans are the earliest maturing photoperiod sensitive soybeans, adapted for production in the 45 to 50 degree latitude range. The 000 maturity group soybeans are very early maturing, photoperiod insensitive soybeans, adapted for production at high latitudes.

Soybean Variety Descriptions

Variety	Yield as % of Maple Amber	Years Tested	Seed Weight g/1000	Days to Maturity		Protein Content %	Oil Content %	Height	
				Average	Range			cm	(in.)
Baron	107	5	156	109	100-124	40.7	20.7	71	(28)
KG 20	110	5	175	108	100-126	40.8	19.1	74	(29)
Maple Amber	100*	5	151	113	101-130	41.0	21.3	75	(30)
Maple Ridge	105	5	139	107	98-118	41.5	19.6	64	(25)
McCall	105	5	144	114	106-134	39.7	20.0	77	(30)

*Average yield 2702 kg/ha (2405 lb/ac) in Manitoba trials (1986-90).

SUGAR BEETS

This crop is grown under contract with Manitoba Sugar Company and seed is provided under the contract.

SUNFLOWERS

Hybrids

All sunflower hybrids listed in the hybrid description table are recommended in Zones 1 and 2 (south of township 18), and Zones 2A, 3, 3A and 4 (south of township 19).

Comments

All hybrids showed high levels of susceptibility to rust in the western and southwestern part of Manitoba where races 3 and 4 are prevalent (1988-89 field evaluation).

The dwarf hybrids Sunwheat 101 and 103 are recommended at rows 45 cm (18 in.) apart with a population density of 75,000-100,000 plants/hectare (30,000-40,000 plants/acre). These hybrids perform better with later seeding. At Morden, the yields increased substantially when seeding was delayed from mid-May to mid-June.

The hybrids Isoleic and Trisun 849 have high oleic acid content, and are grown under contract.

Sunflower Hybrid Descriptions

Hybrid Oil Type	Company	¹ Yield as % of Checks	Years Tested	Days to Maturity	% Oil (10% Moist.)	Height cm (in.)	² Reaction to:			
							Rust ²	Verticillium Wilt	Downy Mildew ³	Sclerotinia Wilt ⁶
205	Cargill	94	5	115	43.7	155 (61)	MS	R	MR	MS
207	Cargill	107	5	117	39.2	170 (67)	R	R	HS	HS
SF 187	Cargill	109	4	117	41.1	136 (54)	MR	R	HS	MS
D0707	Dahlgren	107	4	116	43.1	147 (58)	MS	MR	MS	MS
D0827*	Dahlgren	103	3	114	43.5	159 (63)	MS	MR	MR	MS
D0855	Dahlgren	95	5	114	42.8	153 (60)	MR	MR	MR	S
Hysun 340*	Garst	104	3	117	43.2	162 (64)	R	MR	HS	S
IS 7000	Interstate	92	5	111	44.3	152 (60)	MS	MR	HS	S
7101	Interstate	95	5	113	42.4	156 (61)	MR	MR	MR	S
IS 7111	Interstate	99	5	113	44.6	152 (60)	MR	R	MS	MS
MRS 40	Interstate	95	4	108	42.6	138 (54)	MR	R	MS	MR
Isoleic*	Interstate	92	3	120	43.1	169 (67)	MS	MR	R	MS
Cadet	Jacques	100	4	109	43.7	142 (56)	MS	R	MS	MS
Capri	Jacques	102	4	115	44.9	142 (56)	R	R	S	MR
Challenger	Jacques	101	5	114	43.6	147 (58)	MR	R	MS	MR
D0837	King Agro	95	5	107	42.0	166 (65)	MS	MS	MS	HS
S1296	NK	102	5	113	43.2	149 (59)	MS	MR	MS	MS
6240	Pioneer	102	4	111	44.5	152 (60)	MR	MR	MR	MS
6322*	Pioneer	102	4	113	45.6	154 (61)	MS	MR	MR	S
6440	Pioneer	101	4	117	44.0	160 (63)	MS	R	MR	S
Dak Gold II	Agripro	95	5	112	45.9	149 (59)	MS	MR	S	MS
ST310*	Agripro	98	3	115	43.8	153 (60)	MS	R	R	MS
ST330	Agripro	100	5	118	41.7	155 (61)	MR	R	MS	R
*Sunwheat 101	Agripro	86	5	108	39.0	96 (38)	MS	MR	MS	MS
Sunwheat 103	Agripro	85	3	104	41.0	101 (40)	MS	MR	HS	S
422	SigCo	95	5	110	41.4	148 (58)	MS	MS	MS	MR
452	SigCo	101	5	116	44.3	150 (59)	MR	R	R	MS
465A	SigCo	103	4	117	42.3	152 (60)	MR	R	R	MS
Trisun 849	SigCo	91	4	116	42.5	160 (63)	MS	MR	MS	S
Seed Size										
% over 20/64										
Non-Oilseed Type										
R. H. 2141	Agway	101	5	115	16	165 (65)	S	MS	MS	MS
D131	Dahlgren	104	5	116	20	155 (61)	MS	MS	S	S
954	SigCo	96	5	116	48	160 (63)	S	MR	MS	HS
964	SigCo	99	5	110	28	151 (59)	S	MS	MS	S
974	SigCo	100	4	118	65	168 (66)	MS	MR	MS	S

* On recommended list for the first time.

1. Mean of hybrids Cargill 205, Cargill 207, IS 7111; 1986-90 all Manitoba trials 2752 kg/ha (2457 lb/ha).

2. Resistance indicated is to Race 1 at Morden. Hybrids are susceptible to other races (see comments).

3. Resistance indicated is to Race 2. Hybrids are susceptible to Races 3 and 4, currently established in Manitoba.

4. Sunwheat 101 and 103 are dwarf sunflowers which require specific management practices (see comments).

5. Reaction to disease: R = Resistant; MR = Moderately resistant; MS = Moderately susceptible; S = Susceptible; HS = Highly susceptible.

6. Reaction to sclerotinia wilt (stem rot) is based on 3 years of testing in naturally infected fields.

CORN

Corn Hybrid Descriptions—Grain

Test Locations 1987–1990: Brandon, Morden (1987); Graysville (1988); Bagot, Brandon, Graysville (1989); Brandon, Graysville, Morden (1990).

Heat Unit Rating	Hybrid	Company	Hybrid Type ¹	Days to Silk	Stalk Breakage (%)	Root Lodging (%)	Grain Density ² (% of chks)	Grain Moisture (%)	Grain Yield ³ (% of chks)
2050	Pride K020	King Agro	3W	70	4.9	0.6	105	18.7	86
2100	2488	Pickseed	3W	71	5.7	0.5	99	20.8	91
2150	3995	Pioneer	3W	70	4.5	0.6	101	22.3	97
	DK 233	Dekalb	SC	71	3.5	0.0	103	23.4	97
	Pride K730	King Agro	3W	75	2.2	0.2	103	22.0	94
	LG3	Hyland	3W	72	2.1	1.3	99	24.7	96
	2435	Pickseed	3W	73	4.6	3.2	102	21.5	90
	1027*	Cargill	3W	72	2.2	0.0	103	20.7	90
2200	N0565	NK	3W	75	1.7	0.0	99	22.6	105
	Co-op 2350	U Co-op	OC	75	3.2	0.1	101	22.4	98
	DK 235	Dekalb	OC	76	1.3	0.4	99	23.7	106
	G4017	Funks	3W	75	1.8	0.6	100	23.8	98
	HL 3282	Hyland	3W	75	2.0	0.0	96	25.9	106
	Pride K030*	King Agro		72	1.2	0.3	99	23.8	105
2250	Co-op 6312	U Co-op	3W	76	3.4	0.0	100	24.3	104
	DK 246	Dekalb	3W	75	6.5	0.5	99	21.9	101
	G4067	Funks	3W	74	2.5	0.1	94	25.6	102
	2477	Pickseed	3W	73	2.3	0.0	100	26.5	101
	3954	Pioneer	SC	75	1.0	0.6	98	25.4	119
	3969	Pioneer	SC	74	3.2	0.8	98	24.0	108
	3979	Pioneer	SC	74	0.8	0.2	97	23.9	115
	3967	Pioneer	SC	75	0.0	0.3	100	23.7	123
	PX 9028	NK	3W	77	1.3	0.4	100	23.6	92
	HL 3195*	Hyland	3W	74	0.2	0.0	101	23.5	107
2300**	Co-op 2325	U Co-op	SC	77	2.9	0.1	99	23.9	105
2350**	Pride 1111	King Agro	SC	76	5.2	0.0	96	25.9	107
	3953	Pioneer	SC	75	0.4	0.0	93	27.0	111

* On recommended list for the first time.

** Crop Insurance coverage not available.

SC = Single Cross, 3W = 3-Way Cross, MSC = Modified Single Cross, OC = Other Cross.

Mean Grain Density (Checks) = 71.7 kg/m³ (57.5 lb/bu)

Mean Grain Yield (Checks) = 4.92 t/ha (78.4 bu/ac). Checks one: 3995, K730, LG3, G4017, 3979.

Corn Hybrid Descriptions—Silage

Hybrid	Company	Hybrid Type ¹	Days to Silk	Root Lodging (%)	Silage Yield ² (% of mean)	Plant Maturity (%)
DK 246	Dekalb	3W	71	0.3	84	57.5
HL 3282	Hyland	3W	71	1.3	88	60.1
3969*	Pioneer	SC	71	0.0	98	60.9
DK 233	Dekalb	SC	68	0.3	76	61.2
N0565*	NK	3W	71	0.5	99	61.5
Co-op 2325	U Co-op	SC	74	1.0	100	61.7
3902	Pioneer	SC	72	1.9	107	61.9
Co-op 2350	U Co-op	OC	71	1.0	88	62.6
Pride 1111	King Agro	SC	73	0.0	98	62.9
3957	Pioneer	SC	75	0.0	106	63.1
Pride K730	King Agro	3W	72	1.5	93	63.3
3954*	Pioneer	SC	71	1.7	108	63.5
T 778	Dekalb	MSC	74	1.8	108	64.0
Co-op 6312	U Co-op	3W	73	0.2	98	64.1
HL 3251	Hyland	3W	71	3.5	92	64.2
DK 235*	Dekalb	OC	71	1.8	99	64.3
N 1110	NK	3W	73	1.0	103	64.6
3929	Pioneer	SC	72	3.8	103	64.8
G 4066	Funks	MSC	73	0.0	98	65.2
3851	Pioneer	MSC	74	0.8	105	65.5
PX 9060	NK	SC	74	0.3	98	65.6
HL 2260	Hyland	SC	75	0.6	105	65.7
3979	Pioneer	SC	71	0.6	98	65.9
1927	Cargill	SC	77	0.3	105	66.0
3953	Pioneer	SC	73	1.1	101	66.2
PX 9028	NK	3W	73	0.2	91	66.6
Pride K1115	King Agro	MSC	74	0.7	92	67.3
SX 108	Cargill	SC	77	0.3	104	67.9
HL 2275	Hyland	SC	77	0.3	112	68.0
HL 2428	Hyland	SC	78	2.3	108	68.3
G 4018	Funks	SC	79	0.8	116	70.8

* On recommended list for first time

¹ SC = Single Cross; 3W = 3-Way Cross; MSC = Modified Single Cross; OC = Other Cross

² Mean Silage DM Yield = 12.1 t/ha (5.4 tons/ac)

FORAGE CROPS

GRASSES

Recommended Varieties (listed in alphabetical order)

Bluegrass*

Bromegrass

Baylor
Bravo
Carlton
Jubilee
Rebound

Creeping Red Fescue*

Crested Wheatgrass

Fairway
Nordan
Parkway

Intermediate Wheatgrass

Chief

Meadow Fescue

Ensign
Trader

Orchardgrass

Kay

Reed Canarygrass

Palaton**
Rival**
Vantage**
Venture**

Russian Wild Ryegrass

Swift

Slender Wheatgrass

Revenue

Tall Wheatgrass

Orbit

Timothy

Comment:

Pasture type varieties of Timothy are designated because of their growth habit and regrowth abilities.

Champ – pasture type

Climax – hay type

Itasca – hay type

Richmond – hay and pasture type

Timfor – hay and pasture type

* Insufficient data available for variety recommendation.

**Palaton, Rival, Vantage and Venture are low in alkaloid content making them superior to high alkaloid varieties such as Castor in feed intake and animal performance. Alkaloids are nitrogeous compounds that adversely affect the micro-organisms in the rumen and the nervous system of the animal.

LEGUMES

Recommended Varieties (listed in alphabetical order)

Alfalfa

Early Maturing

Early maturing hay type varieties develop quickly in the spring and may provide more and earlier regrowth than medium maturing varieties.

Admiral – Flemish
Apica – Flemish
Anchor – Flemish
Angus – Flemish
Apollo II – Flemish & Variegated
Award – Flemish & Variegated
Citation – Flemish
Oneida VR – Flemish & Variegated
Pioneer 526 – Flemish
Primal – Flemish
Saranac – Flemish
Spectrum – Flemish & Variegated
Thor – Flemish
Trumpetor – Flemish
Turbo – Flemish
Vista – Flemish

Medium Maturing

The medium maturing hay type varieties are more winter hardy than the early maturing varieties.

Algonquin – Variegated
Beaver – Variegated
Glory – Flemish & Variegated
OAC Minto – Flemish & Variegated
Peace – Variegated

Creeping rooted

Creeping rooted alfalfas are more flood and drought tolerant than the early or medium maturing varieties

Rambler – pasture type – Variegated
Rangelander – pasture type – Variegated
Roamer – pasture type – Variegated
Spredor II – pasture and hay type – Flemish & Variegated

For persistence on marginal soils, select varieties from the creeping rooted and medium maturing recommended list.

Recommended Varieties – continued

Early maturing, medium maturing and creeping rooted alfalfa varieties grown in Manitoba fall into two categories – Variegated or Flemish.

Variegated alfalfas (*Medicago media*) are derived from crosses between *M. sativa* (purple flowered) and *M. falcata* (yellow flowered) alfalfa. Their flowers range in color and can be purple, blue, yellow, or white. The most cold-tolerant varieties grown in Manitoba are variegated. These have been bred to combine winterhardiness and drought tolerance with good yield and satisfactory regrowth.

Flemish type alfalfa (*M. sativa*) originated in northern France. They have purple flowers and are early growing, quick to recover after cutting and moderately winter hardy. Flemish alfalfas should be harvested several days earlier than variegated types to maintain quality.

Alsike Clover*

Birdsfoot Trefoil

Cree – for seed and pasture

Empire – for seed and
pasture

Leo – for seed and pasture

Red Clover*

Sweet Clover

Norgold – yellow blossom, low coumarin

Polara – white blossom, low coumarin

Yukon –yellow blossom

**Insufficient data available for variety recommendation.*

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